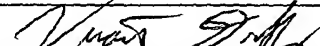


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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032
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UTILITY PATENT APPLICATION TRANSMITTAL		Attorney Docket No. PU030155	
		First Inventor	Louis Robert Litwin, et al
		Title	METHOD AND APPARATUS FOR DETECTION OF PILOT SIGNAL WITH FREQUENCY OFFSET USING MULTI-STAGE CORRELATOR
(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))		Express Mail Label No.	EL675023443US
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231	
<div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i></div> <div>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</div> <div>3. <input checked="" type="checkbox"/> Specification [Total Pages 11] <i>(preferred arrangement set forth below)</i><ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the invention- Brief Summary of the invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure</div> <div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 2]</div> <div>5. Oath or Declaration [Total Pages 1]<div>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</div><div>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) <i>(for a continuation/divisional with Box 18 completed)</i></div><div>i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</div></div> <div>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div>		<div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (<i>Appendix</i>)</div> <div>8. Nucleotide and/or Amino Acid Sequence Submission <i>(if applicable, all necessary)</i><div>a. <input type="checkbox"/> Computer Readable Form (CRF)</div><div>b. Specification Sequence Listing on:<div>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</div><div>ii. <input type="checkbox"/> paper</div></div><div>c. <input type="checkbox"/> Statements verifying identity of above copies</div></div> <div>ACCOMPANYING APPLICATIONS PARTS</div> <div>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))</div> <div>10. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i></div> <div>11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i></div> <div>12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations</div> <div>13. <input type="checkbox"/> Preliminary Amendment</div> <div>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i></div> <div>15. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i></div> <div>16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.</div> <div>17. <input type="checkbox"/> Other: _____</div>	
<div>18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:<div><input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP)</div><div>Prior application information: Examiner _____ of prior application No: _____ / _____ Group / Art Unit: _____</div></div> <div>For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</div>			
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<div><input type="checkbox"/> Customer Number or Bar Code Label or <input type="checkbox"/> Correspondence address below <i>(Insert Customer No. or Attach bar code label here)</i></div>			
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Country	USA	Telephone	(609) 734-6834
		Zip Code	08543-5312
		Fax	(609) 734-6888
Name (Print/Type)		Vincent E Duffy	
Registration No. (Attorney/Agent)		39,964	
Signature		Date	
		07/02/03	

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**FEE TRANSMITTAL
for FY 2003**

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 790**Complete if Known**

Application Number	
Filing Date	herewith
First Named Inventor	Louis Robert Litwin, et al.
Examiner Name	NA
Group / Art Unit	NA
Attorney Docket No.	PU030155

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit
Account
Number

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Deposit
Account
Name

Thomson Licensing Inc.

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	750
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 750**2. EXTRA CLAIM FEES**

Total Claims		-20 **	=	0	X	Fee from below	=	0	Fee Paid
Independent Claims		-3 **	=	0	X		=	0	
Multiple Dependent					X		=	0	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

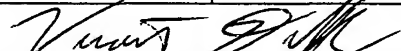
Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1480	130	1480	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 40**SUBMITTED BY**

Complete (if applicable)

Name (Print/Type)	Vincent E Duffy	Registration No. Attorney/Agent)	39,964	Telephone	317-587-4019
Signature				Date	07/02/03

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Docket No. PU030155

Serial No. _____

Filed: herewith

Patent No.

Inventor(s): Louis Robert Litwin, Alton Shelborne Keel and Wen Gao ☐ et al. **Att'y:** Vincent E. Duffy

Title: METHOD AND APPARATUS FOR DETECTION OF PILOT SIGNAL WITH FREQUENCY OFFSET USING MULTI-STAGE CORRELATOR

APPLICATION AS FILED

Enter Date	Enter Number	Check Type	Check Items Mailed with Application
App. Mailed	3	<input checked="" type="checkbox"/> Independent Claims	<input checked="" type="checkbox"/> Declaration
	0	<input type="checkbox"/> Claims in Excess 20	<input type="checkbox"/> Statement under CFR § 1.56-013M
July 2, 2003	3	<input type="checkbox"/> Claim Pages	<input checked="" type="checkbox"/> Assignment & Recordation Sheet
	7	<input type="checkbox"/> Specification Pages	<input type="checkbox"/> Preliminary Amendment
	2	<input type="checkbox"/> Sheets of Drawings	<input type="checkbox"/> Priority Document -
	1	<input type="checkbox"/> Abstract Pages	<input type="checkbox"/> IDS 1449 with References
		<input type="checkbox"/>	<input checked="" type="checkbox"/> Utility Application Transmittal
		<input type="checkbox"/>	
750	Charge	<input type="checkbox"/>	<input checked="" type="checkbox"/> Fee Transmittal Sheet in duplicate
Mailed	Due	AMENDMENTS	APEALS
		After Rejection	Notice of Appeals
		After Final Rejection	Appeal Brief
		After Allowance U/R312	Reply Brief
		Supplemental	Pet. To Withdraw.
		Voluntary	REQUESTS
		Letter to Exam/Draftsperson w/Drawing Correction(s)	Ext. Time§1.136(b)
		Pg(s) of Formal Dwg.s.	Cert. of Correction
		OTHER	OTHER
		Lic. To For. File	Statement NASA
		Reg. Priority 35USC119	Terminal Disclaimer
		Statement DOE	Claim Disclaimer
		Statement under §1.56	Status Letter
		IDS w/ references	Declaration
		Certificate of Mailing	Suppl. Declaration
			Missing Parts Letter

Express Mail Application
Label No.: EL675023443US
Date Deposited: July 2, 2003

Due	FEE'S
_____	Filing Fee Exp. Mail 750
_____	Issue Fee
_____	Ext Time§1.136(a)
_____	Add Payment of Fee
_____	Fee Trans. Form in duplc.
Charge	TOTAL FEE AMT. 790
	OTHER
	Appointment Atty/Agent
	Assignment & Record form
	Letter to PO
	Notif. of Foreign Ref.
	Correction Of Record